

VOLCLAY AKWASWELL

SINGLE COMPONENT CAULK GRADE SWELLING WATERSTOP

DESCRIPTION

AKWASWELL is a caulk grade, single component swelling paste used to stop water infiltration through concrete construction joints. It is a specially formulated polyurethane-based material with a hydrophilic agent dispersed evenly throughout the paste. Akwaswell is installed with a standard caulk gun and self adheres to dry concrete surfaces; no mechanical fastening or adhesives required.

The key to Akwaswell's effectiveness is its 500% swelling capacity when wetted and its plasticity to contour the surrounding surface. This swelling action creates a positive seal against the concrete in construction joints and stops the flow of water through the joint. Akwaswell has been successfully tested to 115 feet (35 m) of hydrostatic pressure when properly installed in concrete joints.

APPLICATIONS

Akwaswell is ideal for rough concrete surfaces and irregular penetration surfaces. Other applications include horizontal and vertical poured-in-place concrete joints, new to existing concrete pours, around penetrations, and concrete repair joints. Akwaswell is not an expansion joint material. Akwaswell can also be used as an adhesive for Akwastop strip waterstop.

PACKAGING

Akwaswell is packaged in 310 ml (10.5 oz) caulk cartridges; 6 cartridges to a case. Gross weight per case is 7.5 lbs. (3.4 kg). Typical storage life - 24 months. Store in dry warehouse at warm temperatures.

INSTALLATION

Clean the substrate surface prior to application. Cut the tip off the plastic caulk tube nozzle to provide a 1/4" to 3/8" (8 to 12 mm) hole and then through the hole pierce the cartridge to provide a path for the paste to exit. Place cartridge in a standard caulking gun and apply a minimum 1/4" (8 mm) diameter bead continuously along the surface. Place the Akwaswell where it will at least be covered by a minimum of 2" (50 mm) of concrete on all sides. Keep the nozzle tip pressed against the concrete at a 45° angle during application to assure continuous contact with substrate.

Typical application rate will be 20 linear feet (6 m) per tube. Actual coverage rate will vary due to application technique and substrate conditions.

When Akwaswell is used as an adhesive base for Akwastop strip waterstop, install at a minimum 3" (75 mm) depth. Press the waterstop into the paste within 15 minutes of Akwaswell installation.

For best results apply to dry concrete substrate. Paste will adhere to a slightly damp surface but not a wet surface. Install when the ambient temperature is above 40°F (4°C). High temperature and relative humidity accelerate the pastes curing process. Allow Akwaswell to cure for a minimum 24-36 hours before placing concrete (with or without the installation of Akwastop).

Use product in a well ventilated area. Wear applicable safety equipment including glasses and gloves. Limit contact with skin. Dispose of product and empty cartridges per applicable regulations. Refer to MSDS sheet for full safety and health information.



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TECHNICAL DATA

PROPERTY	TEST METHOD	TYPICAL VALUE
Color		White
Solids		100%
Volume Expansion (in water)		>250%
Elongation	ASTM D 3574-86	625%
Tensile Strength	ASTM D 3574-86	265 psi
Tearing Strength	ASTM D 790	176 psi
Shore hardness	ASTM D2240	39-A
Setting Time, 60%RH @ 68°F	Tack Free	12-Hours

CHEMICAL RESISTANCE

TEST LIQUID	STABILITY	TYPICAL SWELL
Gasoline	Resistant (discoloring)	2%
Toluene	Resistant (discoloring)	140%
Xylene	Resistant	85%
Methanol (50%)	Resistant	400%
Isopropanol (50%)	Resistant	500%
N-methylpyrrolidone	Resistant (discoloring)	600%
Ethylacetate	Resistant	190%
Methylisobutylketon	Resistant	85%
Acetic Acid (10%)	Not Resistant	150%
Sulphuric acid (10%)	Resistant	190%
Sulphuric Acid (20%)	Resistant	230%
Sodium Chloride	Resistant	25%

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(Supersedes All Previous Versions)

The information contained herein supersedes all previous versions printed prior to June 2004 and is believed to be accurate and reliable. CETCO makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information. CETCO reserves the right to update information without notice.



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